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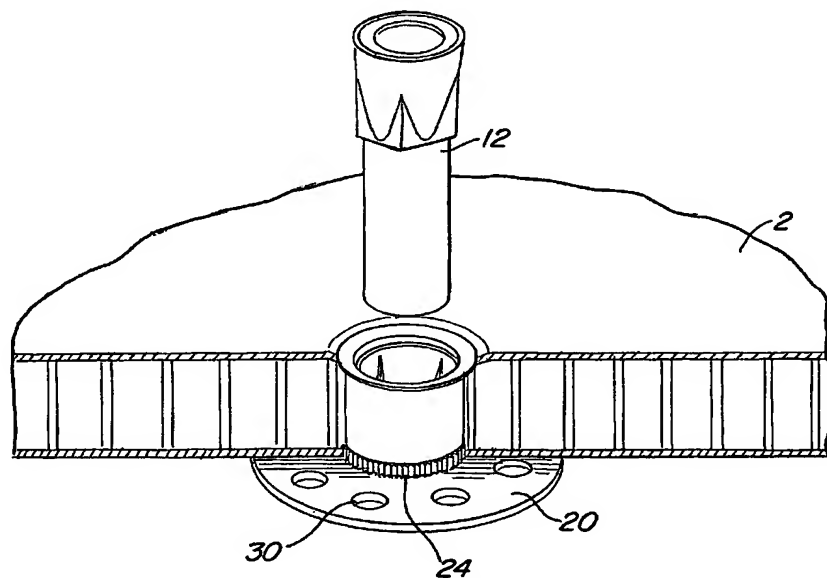
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(54) Title: AN AXIALLY DISPLACED EXPANDED INTERNALLY THREADED PANEL FASTENER FOR A HONEYCOMB PANEL STRUCTURE AND METHOD OF ASSEMBLY



(57) Abstract: An expanding panel fastener assembly for affixing a honeycomb panel structure to a support structure is disclosing having an insert member that attaches to a hole drilled within the honeycomb panel. A flexible sleeve and retainer assembly includes a molded flexible sleeve, an expander member and a retainer member. A sleeve spacer can further be attached to the flexible sleeve to assist in retaining it within the insert member. By providing a fastener for engagement with the retainer member, the expander member can further prevent withdrawal of the retainer member and can further assist in expanding the flexible sleeve to provide a sealing configuration with any support structure.

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